

CLAIMS

1. A communication method, the method comprising the steps of:

5        sequentially inputting voice data to be a transmission object, and discriminating whether the voice which is indicated by the inputted voice data is silent;

      replacing the voice data which is discriminated  
10       that it indicates silent voice with predetermined data; and

      performing wireless transmission of the predetermined data being replaced, with voice data indicating voice, at a transmitting end; and

15       receiving the signal to be wireless transmitted; discriminating the voice data and the predetermined data of the received signal; and

      reproducing the voice data in the voice data, reproducing silence in the predetermined data, and  
20       further executing processing based on the predetermined data, at a receiving end.

2. The communication method according to claim 1, wherein the transmitting end further comprises a step  
25       of forming a transmission frame from the voice data and the predetermined data being replaced, the step setting a steal flag which shows the presence of the predetermined data at the time of transmission; and

      wherein the receiving end further comprises a  
30       step of discriminating the presence of predetermined

data on the basis of the steal flag in the received signal.

3. A transmitting method, the method comprising  
5 the steps of:

sequentially inputting voice data to be a  
transmission object;

discriminating whether the voice which is  
indicated by the inputted voice data is silent;

10 replacing the voice data which is discriminated  
that it indicates silent voice with predetermined  
data; and

transmitting voice data indicating sonant voice,  
and the predetermined data being replaced, together.

15

4. A receiving method, the method comprising the  
steps of:

receiving a signal to be wireless transmitted;

discriminating voice data and the predetermined  
20 data which replaces voice data and is transmitted, in  
the received signal;

reproducing the voice data in the received voice  
data, and reproducing silence in the predetermined  
data replaced and transmitted; and

25 executing control processing based on the  
predetermined data replaced and transmitted.

5. A transmitting apparatus, comprising:

input means of inputting voice data;

30 discrimination means of discriminating whether

voice data inputted by the input means satisfies a predetermined non-transmission condition;

replacement means of replacing voice data discriminated by the discrimination means that the  
5 voice data does not satisfy the non-transmission condition, with predetermined data by stealing; and

transmission means of transmitting the voice data and the predetermined data being replaced.

10 6. The transmitting apparatus according to claim 5, wherein the non-transmission condition is that voice data is silent voice data and a level of voice which the voice data indicates is a reference level or less; and

15 wherein the replacement means operates so as to replace the silent voice data, or the voice data which is in the reference level or less, with the predetermined data.

20 7. The transmitting apparatus according to claim 5 or 6, wherein the replacement means includes means of composing a transmission frame including voice data discriminated by the discrimination means that the voice data does not satisfy the non-transmission  
25 condition, the predetermined data, and a control flag which shows the presence of the predetermined data; and

wherein the transmitting means operates so that a signal may be transmitted by the frame unit.

8. A receiving apparatus, comprising:

receiving means of receiving a signal including  
an voice signal;

5 detection means of detecting predetermined data  
replaced from an voice signal arranged in the signal  
received by the receiving means;

reproduction means of reproducing the voice  
signal received by the receiving means, and further  
reproducing predetermined voice when predetermined  
10 data is detected by the detection means; and

control means of executing processing based on  
the predetermined data detected by the detection means.

9. The receiving apparatus according to claim 8,  
15 wherein the receiving means operates so as to receive  
a frame signal;

wherein the detection means operates so as to  
detect predetermined data in an voice signal included  
in the frame signal;

20 wherein the reproduction means operates so as to  
reproduce the voice signal in the frame signal which  
is received by the receiving means, and further to  
reproduce the predetermined voice when predetermined  
data is detected by the detection means; and

25 wherein the control means of executing  
processing based on the predetermined data detected by  
the detection means.

10. The receiving apparatus according to claim 9,  
30 wherein a predetermined control flag which shows the

presence of the predetermined data is set in the frame signal; and

wherein the detection means operates so as to detect the predetermined data on the basis of the  
5 predetermined control flag.